Claims

- 1. User-side device arrangement (10, 12) for a data transfer service
- having a service usage computer (10) containing at least one storage unit (18) in which program instructions can be stored and containing at least one processor (16) which executes the stored program instructions,
- 10 having a signaling unit (34) whose signaling functions provided by the service usage computer (10) enable the use of additional features of the data transfer service, and
- having a useful-data processing unit (56) that processes the useful

 data which is to be or which has been transferred within the scope of
 the data transfer service,
- wherein a supplementary unit (12) contains an additional storage unit and an additional processing unit and provides the functions of the useful-data processing unit (56).
- Device arrangement (10, 12) according to claim 1, characterized in that the service usage computer (10) contains an operating system program
 (22) providing basic functions for operating the service usage computer (10), and
- in that the supplementary unit (12) contains an additional operating system program providing basic functions for operating the

 30 supplementary unit (12) or in that the supplementary unit (12) contains a circuit whose basic functions are provided without the involvement of an operating system program.
- Device arrangement (10, 12) according to claim 1 or 2,
 characterized in that
 the supplementary unit (12) is located in its own housing preferably outside the service usage computer (10), and/or

in that the supplementary unit (12) contains its own power supply unit operating independently of a power pack of the service usage computer (10), and/or

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in that the supplementary unit (12) is connected to the power supply of a data transmission network (14), and/or

in that the supplementary unit (12) will also provide basic functions

of the data transfer service when the service usage computer has been
deactivated, in particular the answering of an incoming call and/or
the setting up of an outgoing call, and/or

in that the supplementary unit (12) is contained in a handset.

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4. Device arrangement (10, 12) according to one of the preceding claims,

characterized in that

the service usage computer (10) is a computer not having a magnetic 20 storage unit and/or not having a voice processing unit, and/or

in that the service usage computer (10) is a network computer which receives at least one application program at each launch over the data transmission network (14).

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5. Device arrangement (10, 12) according to one of the preceding claims,

characterized in that

the service usage computer (10) and the supplementary unit (12) each contain a transmitting/receiving unit (32, 52) which transmits and receives data packets over a data transmission network (14),

wherein the data transmission network (14) operates preferably according to the Internet Protocol or according to a protocol based on the Internet Protocol.

6. Device arrangement (10, 12) according to claim 5,

characterized by

a setting unit (38) contained in the service usage computer (10), which unit provides setting functions for configuring the supplementary unit (12), and

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by a communication function in the setting unit (38) which transmits setting values from the setting unit (38) to the transmitting/receiving unit (32) of the service usage computer.

7. Device arrangement (10, 12) according to one of the preceding claims,

characterized in that
the supplementary unit (12) contains a transmitting/receiving unit
(52) which, to provide the data transfer service, receives useful

data over a data transmission network (14) and/or transmits useful data into the data transmission network (14),

wherein the data transmission network (14) operates preferably according to the Internet Protocol or according to a protocol based on the Internet Protocol, and/or

wherein the useful data is voice data and/or video data, and/or

in that the useful data is transmitted according to the H.323 protocol or a protocol based thereon, and/or

in that signaling messages are transmitted to the transmitting/receiving unit (52) of the supplementary unit (12) according to a control protocol for transferring useful data in data packets, preferably according to the H.225 protocol or according to the H.245 protocol or according to the SIP protocol.

- 8. Device arrangement (10, 12) according to one of the preceding claims,
- 35 characterized in that
 the signaling unit (34) in the service usage computer (10) provides
 functions of an interface that have been specified for users (TlnA)

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on a private branch exchange or for an interface based on an interface of this type, preferably functions of a UPO interface or of a CorNet interface.

- 5 9. Device arrangement (10, 12) according to one of the preceding claims,
- characterized in that
 the signaling unit (34) and/or the setting unit (38) contains an
 interface (42) to a data viewing program (43) serving to access data
 over a data transmission network (14), preferably text data
 represented according to a text description language.
 - 10. Device arrangement (10, 12) according to one of the preceding claims,
- 15 characterized by a load controlling unit that registers cases of overload on the data transmission network (14) between the service usage computer (10) and the supplementary unit (12) and
- which, in the event of cases of overload, will give priority to forwarding the useful-data packets for the data transfer service.
 - 11. Supplementary unit (12), in particular for a device arrangement (10, 12) according to one of the preceding claims,

having a useful-data processing unit (56) for processing useful data transferred within the scope of a data transfer service,

- having a transmitting/receiving unit (52) for connection to a data 30 transmission network (14),
 - having a control unit (66) for controlling the useful-data processing unit (56), and
- having a communication function for exchanging control messages or control signals between the control unit (66) and the useful-data processing unit (56).

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claims

- 1. User-side device arrangement (10, 12) for a data transfer service having a service usage computer (10) and a separate supplementary
- unit (12) assigned to said service usage computer (10) which are connected to each other via a data transmission network (14),

wherein the service usage computer (10) contains the following units:

- at least one storage unit (18) in which program instructions can be stored,
- 10 at least one processor (16) which executes the stored program instructions, and
 - a signaling unit (34) for implementing features of the data transfer service,

wherein the supplementary unit (12) contains the following units:

- 15 a useful-data processing unit (56) that processes the useful data to be transferred or actually transferred within the scope of the data transfer service, and
 - an additional storage unit and an additional processor providing functions of the useful-data processing unit (56).

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2. Device arrangement (10, 12) according to claim 1, characterized in that

the service usage computer (10) contains an operating system program (22) providing basic functions for operating the service usage com-

25 puter (10), and

in that the supplementary unit (12) contains an additional operating system program providing basic functions for operating the supplementary unit (12) or in that the supplementary unit (12) contains a circuit whose basic functions are provided without the involvement of an operating system program

- 30 operating system program.
 - 3. Device arrangement (10, 12) according to claim 1 or 2, characterized in that

the supplementary unit (12) is located in its own housing preferably outside the service usage computer (10), and/or

in that the supplementary unit (12) contains its own power supply unit operating independently of a power pack of the service usage computer (10), and/or

in that the supplementary unit (12) is connected to the power supply of a data transmission network (14), and/or in that the supplementary unit (12) will also provide basic functions of the data transfer service when the service usage computer has been deactivated, in particular the answering of an incoming call and/or the setting up of an outgoing call, and/or

- 10 in that the supplementary unit (12) is contained in a portable device.
 - 4. Device arrangement (10, 12) according to one of the preceding claims,
- 15 characterized in that
 the service usage computer (10) is a network computer which receives
 at least one application program at each launch over the data transmission network (14).
- 5. Device arrangement (10, 12) according to one of the preceding claims, characterized in that the service usage computer (10) contains a transmitting/receiving unit (32, 52) which transmits and receives data packets over a data transmission network (14), wherein the data transmission network (14)

operates preferably according to the Internet Protocol or according

6. Device arrangement (10, 12) according to claim 5,

to a protocol based on the Internet Protocol.

- 30 characterized by a setting unit (38) contained in the service usage computer (10), which unit provides setting functions for configuring the supplementary unit (12), and
- by a communication function in the setting unit (38) which transmits 35 setting values from the setting unit (38) to the transmitting/receiving unit (32) of the service usage computer.

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7. Device arrangement (10, 12) according to one of the preceding claims,

characterized in that

- the supplementary unit (12) contains a transmitting/receiving unit (52) which, to provide the data transfer service, receives useful data over a data transmission network (14) and/or transmits useful data into the data transmission network (14), wherein the data transmission network (14) operates preferably according to the Internet
- 10 Protocol or according to a protocol based on the Internet Protocol.
 - 8. Device arrangement (10, 12) according to claim 7, characterized in that the useful data is voice data and/or video data, and/or
- in that the useful data is transmitted according to the H.323 protocol or a protocol based thereon, and/or in that signaling messages are transmitted to the transmitting/receiving unit (52) of the supplementary unit (12) according to a control protocol for transferring useful data in data packets,
- 20 preferably according to the H.225 protocol or according to the H.245 protocol or according to the SIP protocol.
 - 9. Device arrangement (10, 12) according to one of the preceding claims,
- 25 characterized in that
 the signaling unit (34) in the service usage computer (10) provides
 functions of an interface that have been specified for users (TlnA)
 on a private branch exchange or for an interface based on an interface of this type, preferably functions of a UPO interface or of a
 30 CorNet interface.
 - 10. Device arrangement (10, 12) according to one of the preceding claims,

characterized in that

35 the signaling unit (34) and/or the setting unit (38) contains an interface (42) to a data viewing program (43) serving to access data

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over a data transmission network (14), preferably text data represented according to a text description language.

11. Device arrangement (10, 12) according to one of the preceding claims.

characterized by

- a load controlling unit that registers cases of overload on the data transmission network (14) between the service usage computer (10) and the supplementary unit (12) and which, in the event of cases of over-
- 10 load, will give priority to forwarding the useful-data packets for the data transfer service.
 - 12. Supplementary unit (12) for a device arrangement (10, 12) according to one of the preceding claims,
- 15 having a useful-data processing unit (56) for processing useful data transferred within the scope of a data transfer service,
 - having a transmitting/receiving unit (52) for connection to a data transmission network (14),
- having a control unit (66) for controlling the useful-data proc essing unit (56), and
 - having a communication function for exchanging control messages or control signals between the control unit (66) and the useful-data processing unit (56).
- 25 13. Service usage computer (10) for a device arrangement according to claims 1 to 10,
 - having at least one storage unit (18) in which program instructions can be stored and having at least one processor (16) which executes the stored program instructions,
- 30 having a signaling unit (34) for implementing features of the data transfer service

wherein the service usage computer does not contain a useful-data processing unit (56) processing the useful data that is to be or has been transferred within the scope of the data transfer service.

- 14. Method for operating a device arrangement (10, 12) according to one of preceding claims 1 to 11 having the following steps requiring to be carried out, with no restrictions imposed thereon by the sequence indicated:
- 5 provisioning of a signaling unit (34) for the use of additional features of a data transfer service in a first device (10),
 - provisioning of a useful-data processing unit (56) in a second device (12),
 - assigning the two devices (10, 12) to each other,
- 10 simultaneous use of the two devices (10, 12) for providing a data transfer service and/or associated additional features.
- 15. Program having an instruction sequence during whose execution by a processor the functions relating to the service usage computer (10) and/or the functions relating to the supplementary unit (12) are provided according to one of claims 1 to 14.